Mumbai University

Question Paper

[IDOL – Revised Course]
(October – 2016)

PAPER - III

Data

Warehousing

Time: 3 Hours   **Total Marks:** 100

N.B.: **(1)** *All Question are Compulsory.*
       (2) *Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.*
       (3) *Answer To The Same Question Must Be Written Together.*
       (4) *Number To The Right Indicates Marks.*
       (5) *Draw Neat Labeled Diagrams Wherever Necessary.*
       (6) *Use of Non – Programmable Calculator is allowed.*

Q.1   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   Differentiate between Data Warehouse and Optional Database.   **(5)**
(B)   Explain the terms "Source" and "Target".   **(5)**
(C)   Explain about the process of Data Transformation.   **(5)**
(D)   Write a short note on Monitoring of DW2.0 Environments.   **(5)**

Q.2   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Briefly discuss the evolution of Data Warehouse.   **(5)**
(B)   Explain about the star schema approach and its limitation.   **(5)**
(C)   Differentiate between Data Warehouse and Data Mart.   **(5)**
(D)   Explain in brief Interactive Sector.   **(5)**
(E)   Explain about the Life Cycle of Data in Data Warehouse.   **(5)**
(F)   Explain Near Line Sector with its feature.   **(5)**

Q.3   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Explain with reference to Data Warehouse: "Data Inconsistencies are removed; data from diverse   **(5)**
         operational applications is integrated".
(B)   What is metadata? Explain about different types of metadata.   **(5)**
(C)   Why most data warehouse systems support index structures? Discuss methods to index OLAP Data.   **(5)**
(D)   Explain in detail the components of Infrastructure Management System.   **(5)**
(E)   Explain about Spiral Methodology.   **(5)**
(F)   Write a short note on Taxonomy.   **(5)**

Q.4   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   List and explain activities of ETL Process.   **(5)**
(B)   What is a Seven Stream Approach? Explain along with limitation.   **(5)**
(C)   Explain about Dormant Data, and how does it affect the performance.   **(5)**
(D)   "Data Warehouse is an environment, not a product" Comment.   **(5)**
(E)   Explain the different levels of Data Model.   **(5)**
(F)   What are the Basic Security Measures? Explain about its drawbacks.   **(5)**

Q.5   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Explain the importance of Data Cleaning in Data Warehouse.   **(5)**
(B)   What is a Data Mart? Differentiate between Dependent an Independent Data Marts.   **(5)**
(C)   Explain about Time Collapsed Data.   **(5)**
(D)   Write a short note on Exception Based Flow of Data.   **(5)**
(E)   Explain the relationship of ETL with Metadata.   **(5)**
(F)   What is the difference between Local and Global Warehouses?   **(5)**

[TURN OVER]

MUMBAI UNIVERSITY
QUESTION PAPER

DATA WAREHOUSING
(OCTOBER – 2016 | REVISED COURSE)

B.Sc.IT
(SEMESTER – VI)

Q.6   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Explain Data Granularity and how it is applicable to the Data Warehouse.   **(5)**
(B)   Explain about Bit-Map indexing in detail.   **(5)**
(C)   Write a short note on Data Accuracy Vs Data Quality.   **(5)**
(D)   How migration of DW does is achieved? Explain.   **(5)**
(E)   "ETL works as a shock absorber". Explain.   **(5)**
(F)   Write a short note on Workload Management.   **(5)**

Q.7   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   How are "Data Warehouse" different from a "Database"? How are they similar?   **(5)**
(B)   Discuss about the concept of Data Warehousing and the Web.   **(5)**
(C)   Discuss B-Tree and Bitmapped indexing method in detail.   **(5)**
(D)   What is Data Partitioning? How does it help in Data Warehousing Environment?   **(5)**
(E)   Write a short note on Data Array.   **(5)**
(F)   Write a note on Backup and Recovery during Data Warehouse Deployment.   **(5)**